



**LEGEND**

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS AT THE TIME.

**GRID COORDINATES**

GRIDS SHOWN ARE BASED ON NATIONAL GEODETIC SURVEY PROJECTION TABLES. STATE OF MICHIGAN, SOUTH ZONE (12131). LAMBERT PROJECTION, 1983 NORTH AMERICAN DATUM.

**DIRECTIONS**

ALL DIRECTIONS ARE GRID AZIMUTHS REFERRED TO NORTH ZERO.

**NOTES**

- GAGES USED WERE OBTAINED ELECTRONICALLY FROM INDA GAGES AT ST. CLAIR (171X) AND FRED DOCK (1291), MICHIGAN, VIA THE INTERNET.
- POSITIONS WERE DETERMINED BY GPS REFERENCE BEACON B38 - LOCATED AT FORT WAYNE DETROIT, MICHIGAN - FREQUENCY 319 KHZ, 200 RPS
- DEPTH MEASURED USING SURVEY BEACON 8125 ULTRA HIGH RESOLUTION FOCUSED MULTIBEAM ECHOSOUNDER SYSTEM.
- EDITED MULTIBEAM SOUNDINGS WERE SORTED INTO A 3 FT. BY 15 FT. MATRIX; THE SHALLOWEST SOUNDING LOCATED IN EACH CELL OF THE MATRIX WAS SELECTED FOR PLOTTING AT THE CELL CENTER.

**AUTOMATED EQUIPMENT USED**

THE AUTOMATED EQUIPMENT SURVEY WAS CONDUCTED BY FRED LEACH, PARTY CHIEF, ABOARD THE USACE SURVEY VESSEL WHEELER.

**POSITIONING:** TSS POS-WM  
**DATA PROCESSOR:** DELT 330 PC  
**SOFTWARE:** HYPERK  
**PLANNING:** HYPERK  
**SONIC SOUNDING:** RECON SEABAT 8125

NO.	DATE	REVISION	BY

**DESIGNED BY:** J. B.      **STATION:** ST. CLAIR RIVER CHANNEL

**CHECKED BY:**      **PROJECT:** CS 1502+00 TO CS 1535+50

**REVIEWED BY:**      **TITLE:** MULTI-BEAM SWEEP SURVEY RESULTS

**DATE:** 29 AUGUST 2006

**SCALE:** AS SHOWN

**DRAWING NO.:** 36 OF 54

**FILE NAME:** sc3680806.dgn